



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/689,392
				Filing Date	October 2003
				First Named Inventor	Robert E. Smith, III
				Art Unit	
				Examiner Name	
Sheet	1	of	8	Attorney Docket Number	221-0074US

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) ²			
AP		US- 4641841		2-1987	Regan	
		US- 4799312		11-12-87	Sarson	
		US- 3038730		10-62	Taylor	
		US- 4709726		2-17-87	Fitzgibbons	
		US- 4834939		5-2-88	Fitzgibbons	
		US- 4768338		11-27-87	Mintz	
AP		US- 5368070		12-4-92	Bosley	
AP		US- 4781399		12-7-87	Collon	
		US- 2265267		12-41	Cowles	
		US- 4694839		11-25-85	Smith	
		US- 1913982		6-33	Fox	
		US- 1928821		10-33	Santiago	
		US- 2265267		12-41	Cowles	
		US- 2825590		4-58	Sutherland	
		US- 3046026		7-62	Burrows	
		US- 3089713		5-63	Scaranuceri	
		US- 3111179		11-63	Albers et al	
		US- 4452462		6-84	Karr, Jr.	
		US- 4582295		4-86	Kugler et al.	
		US- 4641841		2-87	Regan	

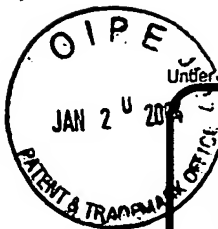
FOREIGN PATENT DOCUMENTS								
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind ⁵ (if known)				
AP		GB	552862		4-43			
AP		GB	677685		8-52			
AP		GB	819421		9-59			
AP		GB	886133		1-62			
AP		GB	888143		1-62			
AP		GB	925491		5-63			
AP		GB	1603670		11-81			
AP		EP	0024986		3-81			
AP		EP	0177650		4-86			
AP		FR	663132		10-28			

Examiner Signature	<i>[Signature]</i>	Date Considered	2-3-05
--------------------	--------------------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/689,392
				Filing Date	October 2003
				First Named Inventor	Robert E. Smith, III
				Art Unit	
				Examiner Name	
Sheet	2	of	8	Attorney Docket Number	221-0074US

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	-	US- 4884584		8-14-87	Smith	
		US- 2218318		10-40	Pfauzer	
		US- 2735696		2-56	Omon et al.	
		US- 3215161		11-65	Goodwin et al.	
		US- 3236251		2-66	Hansen	
		US- 3291152		12-66	Comer	
		US- 3348575		10-67	Simak	
		US- 3507523		4-70	Cadley	
		US- 3516524		6-70	Kelty et al.	
		US- 3550624		12-70	Johnson	
		US- 3618690		11-71	Johnson	
		US- 3707878		1-73	Treichler	
		US- 3727952		4-73	Richardson	
		US- 3797510		3-74	Torres	
		US- 3899199		8-75	Garey	
		US- 3917220		11-75	Gilmore	
		US- 4124228		11-78	Morrison	
		US- 4222411		9-80	Herzan et al.	
		US- 4348039		9-82	Miller	
		US- 4589689		5-86	Regan	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind ⁵ (if known)				
AP		FR	1142462		12-55			
AP		FR	76801		11-58			
AP		FR	1491524		6-66			
AP		CH	343726		7-56			
AP		GB	552435		4-43			
AP		GB	1548852		7-79			
AP		GB	1564906		4-80			
AP		FR	595332		9-25			
AP		FR	822572		1-38			

Examiner Signature	<i>[Handwritten Signature]</i>	Date Considered	2-3-05
-----------------------	--------------------------------	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Application Number	10/689,392
Filing Date	October 2003
First Named Inventor	Robert E. Smith, III
Art Unit	
Examiner Name	
Attorney Docket Number	221-0074US

Examiner Initials ¹	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) ²			
AP		US- 4637470		1-87	Weathers, et al.	
AP		US- 4656393		4-87	Amboss	
		US- 4694859		9-87	Smith	
		US- 4709726		12-87	Fitzgibbons	
AP		US- 4709727		12-87	Gober	
AP		US- 5762106		6-98	Smith	
AP		US- RE18296		12-31	Pierce	
		US- 264736		3-1882	Van Tine	
AP		US- 528773		11-1894	Ellis	
AP		US- 869536		10-07	Weber	
AP		US- 954195		4-10	Law	
AP		US- 1331216		2-20	Schneider	
AP		US- 1583931		5-26	Joyce	
AP		US- 1721325		7-29	Wilson	
AP		US- 1788365		1-31	Anderson	
AP		US- 2498080		2-50	Jasse	
AP		US- 2521692		9-50	Costello	
AP		US- 2626840		1-53	Laurent	
AP		US- 2643140		6-53	Scheiwer	
AP		US- 2660459		11-53	Collins	

[illegible]

2-305

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds of Documents of USPTO Patent Documents at www.uspto.gov or MPEP §01.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 20 2004

C mplete if Known

Application Number	10/689,392
Filing Date	October 2003
First Named Inventor	Robert E. Smith, III
Art Unit	
Examiner Name	
Attorney Docket Number	221-0074US

Sheet 4 of 8

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) ²			
AA		US- 2783106		2-57	Barnhart	
AA		US- 2839314		6-58	Clark	
AA		US- 2844421		7-58	Hayman	
AA		US- 2862775		12-58	Kuplec	
AA		US- 2976066		3-61	Antoniades	
AA		US- 3058750		10-62	Taylor	
AA		US- 3142498		7-64	Press	
AA		US- 3147015		9-64	Hanback	
AA		US- 3163431		12-64	Tanner	
AA		US- 3184246		5-65	Kline	
AA		US- 3207524		9-65	Trbovich	
AA		US- 3233921		2-66	Holmgren et al.	
AA		US- 3279806		10-66	Bialkowski	
AA		US- 3288472		11-66	Wathius- Watkin	
AA		US- 3315970		4-67	Halloway	
AA		US- 3326560		6-67	Trbovich	
AA		US- 3378269		4-68	Castor	
AA		US- 3540745		11-70	Flock	
AA		US- 3647226		3-72	Middelkoop	
AA		US- 3759552		9-73	Levinsohn et al.	

[illegible]

2-305

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known Application Number: 10/689,392 Filing Date: October 2003 First Named Inventor: Robert E. Smith, III Art Unit: Examiner Name: Attorney Docket Number: 221-0074US	
Sheet	5	of	8

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
AP		US-	4302020	11-81	Morales	
AP		US-	4324407	4-82	Upham et al.	
AP		US-	4381868	5-83	Croy et al.	
AP		US-	4410189	10-83	Myers et al.	
AP		US-	4448448	5-84	Polia	
AP		US-	4496162	1-85	McEver et al.	
AP		US-	4592558	6-86	Hopkins	
AP		US-	4658847	4-87	McCrone	
		US-	4817668	10-2-87	Smith	
AP		US-	2730380	1-56	Epsy et al.	
AP		US-	3054422	9-62	Napolitono	
AP		US-	3473556	10-69	Johnson et al.	
AP		US-	3625251	12-71	Nelson	
AP		US-	3891246	1-75	Hopper	
AP		US-	4044993	8-77	Wheeler	
AP		US-	4453566	6-84	Henderson, Jr. et al.	
AP		US-	4457523	7-84	Halling et al.	
		US-	4832080	1-21-88	Smith	
AP		US-	4900071	8-24-88	Smith	
		US-	5013016	4-3-89	Smith	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ²	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind ⁵ (if known)				

Examiner Signature		Date Considered	7-305
--------------------	--	-----------------	-------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 20 2004

(use as many sheets as necessary)

Complete if Known

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

Alto Pico

Date Considered

2-3-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 20 2004

(use as many sheets as necessary)

Sheet	7	of	8
-------	---	----	---

Application Number	10/689,392
Filing Date	October 2003
First Named Inventor	Robert E. Smith, III
Art Unit	
Examiner Name	
Attorney Docket Number	221-0074US

[illegible][illegible]

Mr Diet

7-3-05

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JAN 20 2004

(use as many sheets as necessary)

Sheet	8	of	8
-------	---	----	---

Application Number	10/689,392
Filing Date	October 2003
First Named Inventor	Robert E. Smith, III
Art Unit	
Examiner Name	
Attorney Docket Number	221-0074US

[illegible]

**Examiner
Signature**

-Date
Considered

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.